



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/728,990

12/08/2003

Tae Seung Oh

741196-25

1111

22204

7590

10/14/2004

NIXON PEABODY, LLP
401 9TH STREET, NW
SUITE 900
WASHINGTON, DC 20004-2128

EXAMINER

BROUSSARD, COREY M

ART UNIT

PAPER NUMBER

2835

DATE MAILED: 10/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/728,990

Applicant(s)

OH, TAE SEUNG

Examiner

Corey M. Broussard

Art Unit

2835

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 3 7-9, 14, and 16 is/are rejected.
- 7) ☒ Claim(s) 2-6, 10, 12, 13, 15, 17, and 18 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Specification

1. Claim 13 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim, or amend the claim to place the claim in proper dependent form, or rewrite the claim in independent form. Claim 13 refers to itself as the previous claim.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 3, 7-9, 14, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kitazawa in view of Harrison et al. With respect to claim 1, Kitazawa teaches of a display apparatus (1) with a display mounting unit (10) with first fixing parts (51c) to mount to the ceiling of the vehicle, a connection plate (13a) of the display unit (30) coupled to the bottom of the display mounting unit in stacked form with second fixing parts (19a), a screen unit (32) installed on the plate via hinge (34), and a fixing unit (51) which allows display to be fixed to the ceiling. Kitazawa does not disclose expressly a disk player capable of providing video signal input for the display unit. Harrison teaches a disk player (20) having first fixing parts (76) to mount to the ceiling of the vehicle and a display mounting unit (22) wherein a display unit (24) is coupled to the

Art Unit: 2835

bottom surface of the display mounting unit in a stacked form, the display unit has a screen unit (25) installed through a hinge (26) and displays images according to a video signal input from the disc player. It would have been obvious to one of ordinary skill in the art to incorporate a disk player with the display of Kitazawa as taught by Harrison in order to provide a single modular unit within the vehicle which would allow convenient removal and use of the system.

4. With respect to claim 8, Kitazawa teaches of a display apparatus (1) with first fixing parts (51c) enabling fixation to the ceiling of a vehicle, a display mounting unit (10) with a connection plate (13a) of the display unit (30) coupled to the bottom surface where the display apparatus is fixed to the ceiling of the vehicle, the second fixing parts (19a) enable the connection plate to be coupled with the display mounting unit in stacked form, the display unit fixed to the ceiling of the vehicle by a fixing unit (51), and a screen unit (32) which is installed on the connection plate through a hinge (34).

Kitazawa does not disclose expressly a disk player in combination with the display.

Harrison teaches the conventionality of a combined disc player and display unit.

Harrison discloses a disc player (20) with first fixing parts (76) enabling fixation to the ceiling of a vehicle, and a display mounting unit (22) with a display unit (24) coupled to the bottom surface in stacked form, the disc player fixed to the ceiling together with the display unit by a fixing unit (60), the display unit having a screen unit (25) installed through a hinge (26) and displays images according to a video signal input from the disc player. It would have been obvious to include a disc player with the display apparatus

of Kitazawa as taught by Harrison in order to provide a single modular unit within the vehicle which would allow convenient removal and use of the system.

5. With respect to claim 14, Kitazawa teaches of a display unit (30) with a connection plate (13a) having second fixing parts (19a) enabling the display unit to be coupled with the display mounting unit (5) in stack form, a screen unit (32) which is installed on the connection plate through a hinge (34), wherein the display unit is fixed to the ceiling of the vehicle and the display mounting unit via first fixing parts (51c). Kitazawa does not disclose expressly a disk player in combination with the display unit. Harrison discloses a display unit (24) coupled with the display mounting unit (22) in stacked form, and a screen unit (25) installed through a hinge (26) and displays images according to a video signal input from the disc player (20), wherein the display unit and the disc player are fixed to the ceiling by a fixing unit (60) and the disc player having first fixing parts (76) enabling fixation to the ceiling of the vehicle. Kitazawa and Harrison are analogous art because they are from the same field of endeavor of ceiling mount displays. At the time of the invention it would have been obvious to a person of ordinary skill in the art to modify Kitazawa by incorporating a video source such as a disk drive into the mounting frame. The motivation for doing so would have been the desire for a singular, unitary entertainment device. The unitary structure further allows for easy installation/removal and replacement of the entertainment system.

6. With respect to claim 3, Kitazawa as modified by Harrison discloses the first fixing parts (51d) utilized to fix the display (1) to the ceiling, coupling holes (51c) for fixing the connection plate (13a) are further formed on the display, and second fixing

Art Unit: 2835

part (19a) of the connection plate are arranged on a straight line with one of the coupling holes to form one hole so that the connection plate is fixed to the bottom of the display, and the fixing unit (52 and 53) comprising of first screw member (54) fixed to the ceiling of the vehicle through the first fixing part fixing the display to the ceiling of the vehicle, and second screw member (56) which is fixed to the coupling holes through the second fixing part to fix the connection plate to the display. It would have been obvious to use the mounting structure of Kitazawa as modified by Harrison as disclosed above to support the disc player in addition to the display as a unit.

7. With respect to claim 11, Kitazawa as modified by Harrison teaches coupling holes (51c) arranged on a straight line with one of the second fixing parts (19a) on the connection plate (13a) and the first fixing parts (51d) are formed as holes so that the display (1) is fixed to the ceiling of the vehicle by using the first screw members (54). It would have been obvious to use the mounting structure of Kitazawa as modified by Harrison as disclosed above to support the disc player in addition to the display as a unit.

8. With respect to claim 16, Kitazawa as modified by Harrison teaches each of the second fixing parts (19a) formed on a straight line with one of the first fixing parts (51c) formed as holes and one of the coupling holes of the display (1), and the second fixing parts are formed as holes so that the display unit (30) is fixed to the coupling holes of the display by using second screw members (56). It would have been obvious to use the mounting structure of Kitazawa as modified by Harrison as disclosed above to support the disc player in addition to the display as a unit.

Art Unit: 2835

9. With respect to claims 7 and 9 it is inherent that the display/disc device of Kitazawa as modified by Harrison would have an aperture in order to supply power lines in order for the device to operate.

Allowable Subject Matter


10. Claims 2, 4-6, 10, 12, 13, 15, 17, and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Corey M. Broussard whose telephone number is 571 272 2799. The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feilds can be reached on 571 272 2092. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

cmb


LYNN FEILD
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800